

Rec'd PCT/PTO

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PTO-1390 (Rev. 07-2005)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |  | <b>ATTORNEY'S DOCKET NUMBER</b><br>NTZ 0110 PCT                      |
| <b>INTERNATIONAL APPLICATION NO.</b><br>PCT/IB2004/000419  |  | <b>U.S. APPLICATION NO. (if known, see 37 CFR 1.5)</b><br>10/586,553 |
| <b>INTERNATIONAL FILING DATE</b><br>19 FEBRUARY 2004   |  | <b>PRIORITY DATE CLAIMED</b><br>NONE                                 |
| <b>TITLE OF INVENTION</b><br>MICRO-FILTER DEVICE WITH BY PASS AND METHOD OF DESIGN THE   |  |  |
| <b>APPLICANT(S) FOR DO/EO/US</b> Wilhelmus Petrus Maria Schaerlaeckens   |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |
| <p>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> |  |  |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|   |              |   |         |                           |  |
|---|--------------|---|---------|---------------------------|--|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)   |              | INTERNATIONAL APPLICATION NO.   |         | ATTORNEY'S DOCKET NUMBER  |  |
| 10/586,553  |              | PCT/IB2004/000419   |         | NTZ 0110 PCT              |  |
| 20. Other items or information:<br>RESPONSE TO NOTIFICATION TO FILE MISSING PARTS; COPY OF ORIGINAL NOTIFICATION TO FILE MISSING REQUIREMENTS (AS REQUESTED)  |              |   |         |                           |  |
| The following fees have been submitted  |              |   |         | CALCULATIONS PTO USE ONLY |  |
| 21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300  |              |   |         | \$ 0.00                   |  |
| 22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))  |              |   |         | \$ 0.00                   |  |
| If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0   |              |   |         |                           |  |
| All other situations.....\$200  |              |   |         |                           |  |
| 23. <input type="checkbox"/> Search fee (37 CFR 1.492(b))   |              |   |         | \$ 0.00                   |  |
| If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0  |              |   |         |                           |  |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100   |              |   |         |                           |  |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....\$400  |              |   |         |                           |  |
| All other situations.....\$500  |              |   |         |                           |  |
| TOTAL OF 21, 22 and 23 =  |              |   |         | \$0.00                    |  |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof. |              |   |         |                           |  |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE    |                           |  |
| 11 - 100 =  | 0 /50 =      | 0   | x \$250 | \$ 0                      |  |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).   |              |   |         | \$ 130.00                 |  |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA  | RATE    | \$                        |  |
| Total claims  | 20 - 20 =    | 0   | x \$ 50 | \$ 0                      |  |
| Independent claims  | 2 - 3 =      | 0   | x \$200 | \$ 0                      |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |   | + \$360 | \$ 0                      |  |
| TOTAL OF ABOVE CALCULATIONS =   |              |   |         | \$ 130.00                 |  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |              |   |         |                           |  |
| SUBTOTAL =  |              |   |         | \$ 130.00                 |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).   |              |   |         | \$ 0                      |  |
| TOTAL NATIONAL FEE =  |              |   |         | \$ 130.00                 |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |         | \$ 0                      |  |
| TOTAL FEES ENCLOSED =   |              |   |         | \$ 130.00                 |  |
| Amount to be refunded:  |              |   |         | \$                        |  |
| Amount to be charged  |              |   |         | \$                        |  |

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- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 50-0476 in the amount of \$ 130.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0476. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

## SEND ALL CORRESPONDENCE TO:

Robert P. Renke  
Artz & Artz, P.C.  
28333 Telegraph Road, Suite 250  
Southfield, MI 48034  
U.S.A.  
(248) 223-9500  
(248) 223-9522 FAX

  
SIGNATURE  
Robert P. Renke  
NAME  
40,783  
REGISTRATION NUMBER

Dated: December 22, 2006

DEC-22-2006 11:33

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248 2239522

P.07/13

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Wilhelmus Petrus Maria Schaerlaeckens

Serial No.: 10/586,553

Filed: July 19, 2006

For: MICRO-FILTER DEVICE WITH BY PASS AND METHOD  
OF DESIGN THEREFOR

Attorney Docket No.: NTZ 0110 PCT

I hereby certify that this correspondence is being sent via facsimile to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 fax number (571) 273-3201 on:

December 22, 2006  
Date of Deposit

Angie Moscovitz

  
Signature

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Notification of Missing Requirements dated November 29, 2006, Applicant is submitting herewith the required executed Declaration under 37 CFR 1.63.

Also enclosed herewith is a copy of the original Notification of Missing Requirements as requested.

Applicant is also submitting an executed Power of Attorney for filing as well.

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U.S.S.N. 10/586,553

-2-

NTZ 0110 PCT

The Commissioner is hereby authorized to charge Deposit Account No. 50-0476, in the name of John A. Artz, P.C. in the amount of \$130.00 for payment of the required declaration filing fee. The Commissioner is further authorized to charge any additional fees necessary, or credit any overpayment concerning this application to Deposit Account No. 50-0476 in the name of John A. Artz, P.C.

Respectfully submitted,

**ARTZ & ARTZ, P.C.**



Robert P. Renke, Reg. No. 40,783  
28333 Telegraph Road, Suite 250  
Southfield, MI 48034  
(248) 223-9500

Dated: December 22, 2006

DEC-22-2006 11:34

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P.12/13



## UNITED STATES PATENT AND TRADEMARK OFFICE

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|                             |                                       |                  |
|-----------------------------|---------------------------------------|------------------|
| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT                 | ATTY. DOCKET NO. |
| 10/586,553                  | Wilhelmus Petrus Maria Schaerlaeckens | NTZ 0110 PCT     |

|                               |
|-------------------------------|
| INTERNATIONAL APPLICATION NO. |
| PCT/IB04/00419                |

|                  |               |
|------------------|---------------|
| I.A. FILING DATE | PRIORITY DATE |
| 02/19/2004       |               |

27256  
 ARTZ & ARTZ, P.C.  
 28333 TELEGRAPH RD.  
 SUITE 250  
 SOUTHFIELD, MI 48034

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CONFIRMATION NO. 5778

371 FORMALITIES LETTER

\*OC000000021388228\*

Date Mailed: 11/29/2006

Resp due 1/29/07 /an

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 07/19/2006
- Copy of the International Search Report filed on 07/19/2006
- Preliminary Amendments filed on 07/19/2006
- Information Disclosure Statements filed on 07/19/2006
- Oath or Declaration filed on 07/19/2006
- Request for Immediate Examination filed on 07/19/2006
- U.S. Basic National Fees filed on 07/19/2006
- Power of Attorney filed on 07/19/2006

ENTERED CH:  
 Date: 12-4-06  
 By: J. A. H.

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

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- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://portal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

## PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/586,553                  | PCT/IB04/00419                | NTZ 0110 PCT     |

FORM PCT/DO/EO/805 (371 Formalities Notice)